BRUHAT BANGALORE MAHANAGARA PALIKE

Asst.Executive Engineer,
Shettyhalli Sub Division,

Name of Work:- Improvements to Roads And Drains At PK's Mustering Center Surrounding Area In Ward No.13 Shettyhalli Sub Division

Est Cost: 58.00 Lakhs

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Report Accompanying The Estimate

Name Of Work :Improvements To Roads And Drains At PK's Mustering Center Surrounding Area In Ward No 13 Shettyhalli Sub Divison.

ಬಿ.ಬಿ.ಎಂ.ಪಿ ವ್ಯಾಪ್ತಿಯ ವಾರ್ಡ್ ನಂ-13 ರಲ್ಲಿ ಮಲ್ಲಸಂದ್ರ ವಾರ್ಡ್ ವ್ಯಾಪ್ತಿಯಲ್ಲಿ ಪೌರ ಕಾರ್ಮಿಕರಿಗೆ ವಿಶ್ರಾಂತಿ ಗೃಹ ನಿರ್ಮಾಣ ಮಾಡಲಾಗಿರುತ್ತದೆ. ಹಾಗೂ ಸದರಿ ಪ್ರದೇಶದಲ್ಲಿ ಪೌರ ಕಾರ್ಮಿಕರು ಎಸ್.ಸಿ/ಎಸ್.ಟಿ ಜನರು ವಾಸಿಸುತ್ತಿರುತ್ತಾರೆ. ಹಾಗೂ ಈ ಹಿಂದೆ ನಿರ್ಮಿಸಿದ ಇಲ್ಲಿನ ರಸ್ತೆಗಳು ಹಾಳಾಗಿರುತ್ತವೆ. ಆದ್ದರಿಂದ ದುರಸ್ಥಿಗೊಂಡಿರುವ ರಸ್ತೆಗಳನ್ನು ಸರಿಪಡಿಸುವುದು ಸೂಕ್ತವಾಗಿದ್ದು 2019-20ನೇ ಸಾಲಿನ ಬಿಬಿಎಂಪಿ ಆಯವ್ಯಯದಲ್ಲಿ **ಪಿ-ಕೋಡ್ ಸಂಖ್ಯೆ : 1878** ಲೆಕ್ಕ ಶೀರ್ಷಿಕೆ ಪಿ.ಕೋಡ್-1878ರ ಎಸ್.ಸಿ/ಎಸ್.ಟಿ ವರ್ಗದವರಿಗೆ ಸಾಮೂಹಿಕ ಕಾರ್ಯಕ್ರಮಗಳ ಕಲ್ಯಾಣ ಕಾರ್ಯಕ್ರಮಗಳ ಅನುದಾನದಡಿಯಲ್ಲಿ ಮಲಸಂದ್ರ ವಾರ್ಡ್ ವ್ಯಾಪ್ತಿಯಲ್ಲಿ ಬರುವ ಎಸ್.ಸಿ/ಎಸ್.ಟಿ ಜನರು ವಾಸಿಸುವ ಪ್ರದೇಶಗಳ ಅಭಿವೃದ್ಧಿಗೆ ರೂ.400.00 ಲಕ್ಷಗಳ ಅನುದಾನ ಲಬ್ಯವಿದ್ದು. ಅದರಲ್ಲಿ ರೂ.58.00ಲಕ್ಷಗಳ ಅನುದಾನವನ್ನು ಸದರಿ ಪ್ರದೇಶದ ಅಭಿವೃದ್ಧಿಗೆ ಮೀಸಲಿರಿಸಲಾಗಿರುತ್ತದೆ.

ಸದರಿ ಅನುದಾನಕ್ಕೆ 2019-20ನೇ ಸಾಲಿನ ಲೋಕೊಪಯೋಗಿ ಇಲಾಖೆಯ ದರಪಟ್ಟಿ ಮತ್ತು ಮಾರುಕಟ್ಟೆ ದರಗಳ ಅನುಸಾರ ಈ ಕೆಳಕಂಡ ಅಂಶಗಳೊಂದಿಗೆ ಅಂದಾಜು ಪಟ್ಟಿಯನ್ನು ರೂ.58.00ಲಕ್ಷಗಳಿಗೆ ತಯಾರಿಸಲಾಗಿದೆ.

1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil invoiving
2. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm
3. Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix
4. Providing T.M.T steel reinforcement for R.C.C workincluding straightening, cutting, bending, hooking,
5. Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 25cm
6. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces
7. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface
8. Etc

ಸದರಿ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮತ್ತು ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿಗಾಗಿ ಸಲ್ಲಿಸಿದೆ.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ವಾರ್ಡ್ ನಂ-13

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ

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BRUHATH BENGALORE MAHANAGARA PALIKE DASARAHALLI ZONE

Name of work:Improvements to Roads And Drains At PK's Mustering Center Surrounding Area In Ward No.13 Shettyhalli Sub Division

Est .Cost Rs 58.00 Lakhs

Sl. No		Unit	No	Dimension L	Dimension B	Dimension D	Quantity	Rate in Rs.	Amount in Rs.
1	KSRRB 300-3. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil invoiving , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification MORTH/ Chapter 3. **(Page No. 143/ Item No. 19.1/ PWD SR 2018-19)**								
	Desilt								
	1st cross (Byraveshwara Layout)		1	42.00	0.60	0.45	11.34		
	2nd cross,Vijayalakhshmi Layout		2	90.00	0.60	0.45	48.60		
	For RCC Drain								
	1st cross (Byraveshwara Layout)		1	17.00	1.10	1.00	18.70		
	For RCC Culvert								
	1st cross (Byraveshwara Layout)		1	5.50	2.00	1.00	11.00		
	For CC Road								
	1st cross (Byraveshwara Layout)		1	19.20	5.60	0.30	32.26		
	Main Road (BHEL Mini Colony)		1	100.00	6.80	0.30	204.00		
	PK's Mustering Center Back side Road		1	36.00	3.60	0.30	38.88		
	2nd cross, BHEL Mini Colony		1	62.00	5.00	0.30	93.00		
	Shooting Banglow Main Road		1	62.00	4.20	0.30	78.12		
	2nd cross,Vijayalakhshmi Layout		1	91.00	4.20	0.30	114.66		
	Cross road		1	17.00	2.20	0.30	11.22		
	Stree Shakti Bhavana Surroundings		1	152.00	2.30	0.30	104.88		
		Cum					**766.66**	**137.80**	**105645.20**
	Basic Rate	130.00							
	Area Weightage 6%	7.80							
	Grand Total	**137.80**							
2	Removing And Refixing stone slabs of drains and pointing in C.M (1:3) (Page No.27/ Item No.5.33/ PWD SR 2018-19)								
	Desilt								
	1st cross (Byraveshwara Layout)		1	42.00	0.90		37.80		
	2nd cross,Vijayalakhshmi Layout		2	90.00	0.90		162.00		
							199.80		
			Consider Missing Slabs 25%				45.48		
		Cum					**154.32**	**111.30**	**17175.82**
	Basic Rate	105.00							
	Area Weightage 6%	6.30							
	Total	**111.30**							
3	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. **(P.No-222,I No-27.18 pwd 2018-19)**								
	For RCC Drain								
	1st cross (Byraveshwara Layout)		1	17.00	1.10	0.15	2.81		
	For RCC Culvert								
	1st cross (Byraveshwara Layout)		1	5.50	2.00	0.15	1.65		
	For CC Road								
	1st cross (Byraveshwara Layout)		1	19.20	5.60	0.15	16.13		
	Main Road (BHEL Mini Colony)		1	100.00	6.80	0.15	102.00		
	PK's Mustering Center Back side Road		1	36.00	3.60	0.15	19.44		
	2nd cross, BHEL Mini Colony		1	62.00	5.00	0.15	46.50		
	Shooting Banglow Main Road		1	62.00	4.20	0.15	39.06		
	2nd cross,Vijayalakhshmi Layout		1	91.00	4.20	0.15	57.33		

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Sl. No		Unit	No	Dimension			Quantity	Rate in Rs.	Amount in Rs.
				L	B	D			
	Cross road		1	17.00	2.20	0.15	5.61		
	Stree Shakti Bhavana Surroundings		1	152.00	2.30	0.15	52.44		
		Cum					**342.96**	**5509.33**	**1889495.21**
	Basic Rate	5115.00							
	Deduct Cement cost as per SR -18-19 Page No.V Sl.No.123	-1079.39	Note:- (220*490.63/100)=1079.39						
	Add Cement cost as per Issue rate	1161.86	Note:- (220*264.06/50)=1161.86						
	Sub Total	5197.48							
	Area Weightage 6%	311.85							
	Grand Total	**5509.33**							
4	Providing and laying plain/reinforced cement concrete for side drains **using M20 nominal mix** concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm (I No-37.59.2,P No-271 pwd 2018-19)								
	For Bottom raft								
	1st cross (Byraveshwara Layout)								
	For RCC Drain		1	17.00	0.95	0.15	2.42		
	For RCC Culvert		1	5.50	1.50	0.20	1.65		
	For Wall								
	For RCC Drain		2	17.00	0.15	0.70	3.57		
	For RCC Culvert		2	5.50	0.30	0.60	1.98		
		Cum					**9.62**	**7189.42**	**69180.18**
	Basic Rate	6670.00							
	Deduct Cement cost as per SR -18-19 Page No.V Sl.No.123	-1471.89	Note:- (300*490.63/100)=1471.89						
	Add Cement cost as per Issue rate	1584.36	Note:- (300*264.06/50)=1584.36						
	Sub Total	**6782.47**							
	Area Weightage 6%	406.95							
	Grand Total	**7189.42**							
5	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C workincluding straightening, cutting, bending, hooking, placing in position,lapping and / or welding wherever required, tying with binding wire andanchoring to the adjoining members wherever necessary complete asper design (laps, hooks and wastage shall not be measured and paid)cost of materials, labour, HOM of machinery complete as perspecifications.Specification No. KBS 4.6.3 (I No-28.8.2,P No-229 PWD SR 2018-19)								
	Consider 70kg/Cum for RCC Drain		1	9.62	70.00		673.58		
	Consider 90kg/Cum for RCC Culvert		1	3.63	90.00		326.70		
	Consider 7.5kg/Sqm for CC Road		1	320.00	7.50		2400.00		
		Tonne					**3.40**	**72326.98**	**245931.62**
	Basic Rate	68233.00							
	Area Weightage 6%	4093.98							
	Grand Total	**72326.98**							
6	Providing and fixing Precast RCC cover slabs of 100 mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement and pointing for joints 1:3 cement mortor including form work, lift charges,curing and concrtee finished surface on both sides etc,and complete as per the directions of Enginner in charges (Data Rate)								
	For RCC Drain								
	1st cross (Byraveshwara Layout)		1	17.00	0.90		15.30		
			Missing Slabs				45.48		
		Sqm					**60.78**	**1615.00**	**98159.70**
	Data Rate	**1615.00**							

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Sl. No		Unit	No	Dimension L	Dimension B	Dimension D	Quantity	Rate in Rs.	Amount in Rs.
7	Providing and fixing Precast RCC slab of 250mm thick for Culverts made of Plain/Reinforced Cement Concrete design mix M25 with OPC@340kgs,with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregates@0.47cum,with superplasticizer@3lts confirming to 189103-1999 Reaffirmed-2008,Open Foundation complete as per Drawing and Technical Specification including cost of all materials, labour,HOM curing,form works,scaffolding and centering complete as per specifications and pointing for ljoints 1:3 cement mortar including form work,lift charges,curing and concrete finished surfaces on both sides etc,complete and as per the directions of Engineer in-Charge. (Data Rate)								
	For RCC Culvert								
	1st cross (Byraveshwara Layout)		1	5.50	1.50		8.25		
		Sqm					**8.25**	**3674.00**	**30310.50**
	Data Rate	**3674.00**							
8	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202 **(Page No-140 Item no - 18.47 of KPWD SR 2018-19)**								
	For CC Road								
	Main Road (BHEL Mini Colony)		1	100.00	6.80	0.15	102.00		
		Cum					**102.00**	**952.94**	**97199.88**
	Basic Rate	899.00							
	Area Weightage 6%	53.94							
	Grand Total	**952.94**							
9	KSRRB 300-49. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by manual means without disturbing the base and stacking of the debris materials including cost of all labour charges complete as per specifications. MORTH / Chapter 3 **(Page No. 146/ Item No.19.55/ PWD SR 2018-19)**								
	Asphalt Road								
	2nd cross, BHEL Mini Colony		1	62.00	5.00		310.00		
	Shooting Banglow Main Road		1	62.00	4.20		260.40		
	2nd cross,Vijayalakhshmi Layout		1	91.00	4.20		382.20		
		Sqm					**952.60**	**95.40**	**90878.04**
	Basic Rate	90.00							
	Area Weightage 6%	5.40							
	Grand Total	**95.40**							
10	KSRRB 300-Compaction KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3 **(Page No-147 Item no - 19.64 of KPWD SR 2018-19)**								
	For CC Road								
	1st cross (Byraveshwara Layout)		1	19.20	5.60		107.52		
	Main Road (BHEL Mini Colony)		1	100.00	6.80		680.00		
	PK's Mustering Center Back side Road		1	36.00	3.60		129.60		
	2nd cross, BHEL Mini Colony		1	62.00	5.00		310.00		
	Shooting Banglow Main Road		1	62.00	4.20		260.40		
	2nd cross,Vijayalakhshmi Layout		1	91.00	4.20		382.20		
	Cross road		1	17.00	2.20		37.40		
	Stree Shakti Bhavana Surroundings		1	152.00	2.30		349.60		
		Sqm					**2256.72**	**6.36**	**14352.74**
	Basic Rate	6.00							
	Area Weightage 6%	0.36							
	Grand Total	**6.36**							
11	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap I basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve thedesired density complete as per specifications. MORTH Specification No. 406 **(Page No-158 Item no - 20.18 of KPWD SR 2018-19)**								
	For CC Road								
	1st cross (Byraveshwara Layout)		1	19.20	5.60	0.15	16.13		
	Main Road (BHEL Mini Colony)		1	100.00	6.80	0.15	102.00		

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Sl. No		Unit	No	Dimension			Quantity	Rate in Rs.	Amount in Rs.
				L	B	D			
	PK's Mustering Center Back side Road		1	36.00	3.60	0.15	19.44		
	2nd cross, BHEL Mini Colony		1	62.00	5.00	0.15	46.50		
	Shooting Banglow Main Road		1	62.00	4.20	0.15	39.06		
	2nd cross,Vijayalakhshmi Layout		1	91.00	4.20	0.15	57.33		
	Cross road		1	17.00	2.20	0.15	5.61		
	Stree Shakti Bhavana Surroundings		1	152.00	2.30	0.15	52.44		
		Cum					338.51	2001.28	677449.29
	Basic Rate	1888.00							
	Area Weightage 6%	113.28							
	Grand Total	2001.28							
12	Cement concrete pavement Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) **(Page No. 175.tem No.22.6.1,PW,P & IWTD SR 2018-19)**										
	For CC Road								
	1st cross (Byraveshwara Layout)		1	19.20	5.60	0.15	16.13		
	Main Road (BHEL Mini Colony)		1	100.00	6.80	0.15	102.00		
	PK's Mustering Center Back side Road		1	36.00	3.60	0.15	19.44		
	2nd cross, BHEL Mini Colony		1	62.00	5.00	0.15	46.50		
	Shooting Banglow Main Road		1	62.00	4.20	0.15	39.06		
	2nd cross,Vijayalakhshmi Layout		1	91.00	4.20	0.15	57.33		
	Cross road		1	17.00	2.20	0.15	5.61		
	Stree Shakti Bhavana Surroundings		1	36.50	2.30	0.15	12.59		
		Cum					298.66	5354.02	1599034.84
	Basic Rate	4916.00							
	Deduct Cement cost as per SR -18-19 Page No.V Sl.No.123	-1766.27	Note:- (360*490.63/100)=1766.27						
	Add Cement cost as per Issue rate	1901.23	Note:- (360*264.06/50)=1901.23						
	Sub Total	**5050.96**							
	Area Weightage 6%	303.06							
	Grand Total	**5354.02**							
13	Removal of Unserviceable Soil with Disposal KSRRB M300-19. Removal of unserviceable soil including excavation, loading and disposal but excluding replacement by suitable soil which shall be paid separately as per clause 300.5 complete as per specifications. MORTH Specification No. 301 **(P.No.144 & I.No.19.20 PWD 18-19)**								
	Vide Item No.1						766.66		
		Cum					**766.66**	**34.98**	**26817.63**
	Basic Rate	33.00							
	Area Weightage 6%	1.98							
	Grand Total	**34.98**							
14	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregates /Sand/ Kanker / Moorum. KSRRB M100-1 : Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications. MORTH -100/ Chapter 1 (P.No.136 & I.No.17.1 PWD 18-19)								
	Vide Item No.8&9						159.16		
		Cum					**159.16**	**57.00**	**9071.89**
	Basic Rate	**57.00**							

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Sl. No		Unit	No	Dimension L	B	D	Quantity	Rate in Rs.	Amount in Rs.
20	KSRRB M100-4.1. Cost of Haulage Excluding Loading and Unloading MORTH -100/ Chapter 1 Case-I : Surface Road (P.No.136 & I.No.17.4 PWD 18-19)								
							~~793.46~~ 925.81		
	Vide Item No. ~~18 &19~~ 13 & 14						~~793.46~~	25.60	20312.60
		Cum					925.81		4994370.37
	Lead for earth 10 km	25.60							
								Total Constrution cost	4997307.26
								GST Charges 12%	599676.87
								KRIDL Charges 4%	199892.29
								Sub Total	~~5796876.42~~
								Miscellaneous & Rounding Off	6530 3123.58
								Grand Total	5800000.00
	Rupees Fifty Eight Lakh(s) Only								

Certificate:-

1) This Work Comes Within BBMP Limits.
2) Certified that personaly Inspected the Work Spot.
3) Certified that the Estimate is Prepared Based on CSR of PWD Bangalore Circle 2018-19
4) Estimate is Prepared Making Use of essential itemof work as per site conditions in safest way of Execution in most economical way
5) This work is not include in any other program of work.

Assistant Engineer
Ward No.13

Assistant Executive Engineer
Shetyhalli Sub - Division

Executive Engineer
Dasarahalli Zone

EXECUTIVE ENGINEER
Bruhat Bengaluru Mahanagara Palike,
Dasarahalli Division, Bengaluru-57

ADMINISTRATIVELY SANCTIONED FOR 5800000
(Rupees Fifty Eight lakhs Only
Under the Head of Account P-1878-18-Pw
(Bhagyajyothi, Soorya Nivasi Yojane and General)
Registered as no EE(D.D.)/AS.207 Subject to conditions contained in Enclosed Memo No. EE/DD/AS/207/19-20 Dt. 30/01/2020

JE/AE.

Exe. Eng
(DASARAHALLI) BBMP

Technically Sanctioned For Rs: 5800,000.00
Rs. In Words Fifty Eight Lakh only
Under P 1878 18Pw works (Bhagyajyothi)
Job Code No. 013-20-000072
Registered as SE No. 17 /19-20 subject to conditions contained in Enclosed Memo No. SE/D2/TS/17/19-20 Dt. 03/02/20

AE/JE TA

SE(D)

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